

- Diffusion gas exchanger - has lugs at corners of frames slotted, with distancing spacers in form of rectangular frames.

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The exchanger consists of a package of porous membranes (2) with distance spacers which together form two groups of mutually perpendicular uniflow channels with inlets and outlets located on opposite sides of the package. The distancing spacers are in the form of rectangular frames (1) which are equal in height.

Inside air from the work space is fed into one end of the exchanger and blown through it until it comes out at the other end to be returned to the work space. At the same time, outside air is blown through the diffuser at right angles to the flow of inside air before being returned to atmosphere. The membranes in the diffuser cleanse both the outside and inside air streams of undesirable gas components. In the case of the inside air, this entails removing carbonic gases and other gaseous components and replacing them with oxygen from the outside air and lodged in the pores of the membranes.

ADVANTAGE - Increase in the concentration and temperature gradients.

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